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PART I

IMPORTANT GOVERNMENT ORDERS

PUBLIC WORKS SECRETARIAT

Reviews the Administration Report of the Public Works Department (Irrigation Works, Bangalore Water Supply, Krishnaraj Sagar and Allied Works and the Jog Power Scheme) for the year 1943-44.

READ—

Correspondence ending with Letter No. 1325—S., dated 22nd January 1945, from the Chief Engineer for Irrigation in Mysore, forwarding the Administration Report of the Irrigation Department comprising Irrigation Works, Bangalore Water Supply, Krishnaraj Sagar and Allied Works and the Jog Power Scheme for the year 1943-44.

ORDER No. P. W. 10-31, DATED BANGALORE, THE 2ND JULY 1945.

Recorded.

2. Mr. L. A. H. Winckler, A.C.G.I., M.I.E. (Ind.), J.P. continued as Chief Engineer till 17th April 1944 when Mr. M. Narasimhaiya, B.A., C.E., M.I.E. (Ind.), assumed charge of the office of the Chief Engineer for Irrigation in accordance with G. O. No. 3888-947—C. B. 170-43-1, dated 12th April 1944, ordering the bifurcation of the Department of Public Works into Irrigation and Roads and Buildings.

Two Special Sub-Divisions were constituted, one for the execution of the works of constructing tanks across Sokkehalla and Chikkahagari in Jagalur Taluk and another for the investigation of the Kabbini Reservoir and other schemes in the Cauvery Valley. The offices of the Liaison Officer of the Public Works and Public Health Departments and the Village Shifting Officer at Mandya, the Special Project Sub-Division constituted for the execution of the protective works to the waste weir valleys of the Krishnaraj Sagar, the Inter-village Roads Sub-Division for the Irwin Canal Area and the Bhadra Reservoir Project Sub-Division were continued during the year.

3. *Grant and Outlay.*—The final grant for the several works of General Irrigation, Bangalore Water Supply, Krishnaraj Sagar and Allied Works and Jog Power Scheme (Civil Engineering Works) that were entrusted to the Irrigation Department for execution was Rs. 1,28,67,898 and the total outlay booked during the year was Rs. 1,06,29,477.

The aggregate grant from State Funds for works proper including Bangalore Water Supply and Jog Power Scheme was Rs. 99,40,623 against which an outlay of Rs. 89,47,559 was incurred, resulting in a lapse of Rs. 9,93,064.

4. *Irrigation Works.*—The expenditure incurred on original works amounted to Rs. 15,52,293 of which a sum of Rs. 13,06,585 was spent on major tanks, Rs. 1,58,057 on minor tanks and Rs. 87,651 on channels.

Large irrigation works of a protective nature are being financed from Irrigation Development Fund specially formed for the purpose.

Of the irrigation works of magnitude under progress, the Kamasamudram, Bowringpet Taluk, the construction of a new tank across Bandihalla at Thippaganahalli, Goribidnur Taluk, and the construction of a reservoir across the Shimsha River near Marconahalli, Kunigal Taluk, were nearing completion. The other major works in progress were the Kanva Reservoir Feeder Channel to Thonnur Tank, Honnamachanahalli Tank, Parasurampur Tank, Pokurthi Tank, extending the Bhadra Right Bank Channel, the Anjanapur Reservoir Channel, construction of a new tank across Chikkahagari near Thuppadahalli and construction of a new tank across Sokkehalla near Gadimakunte.

The number of major and minor tanks restored during the year were 15 and 83, respectively, against 31 and 113 in the previous year. The progress on this important work of restoration of tanks is observed to be poor. More vigorous steps should be taken to restore a large number of tanks and to expedite the preparation of more projects for restoration now that the Minor Tank Restoration Ranges at Hunsur and Sorab have also been sanctioned.

The length of river channels outside the scope of Krishnaraj Sagar Works maintained during the year was 1,205¾ miles and the atchkat under the river channels and the area irrigated were 149,197 acres and 139,686 acres, respectively.

5. *Irrigation Cess Fund.*—The grant during the year under this head was Rs. 8,00,033 and the outlay Rs. 6,47,911. The number of works in progress and the number completed were 1,208 and 695, respectively.

6. *Bangalore Water Supply.*—Against the total grant of Rs. 10,18,000 for original works, an outlay of Rs. 3,93,911 was incurred and against the total grant of Rs. 10,64,400 for the maintenance of the water works the expenditure incurred during the year amounted to Rs. 10,49,097 including a sum of Rs. 1,22,000 credited as a contribution to the Depreciation Fund of the Water Works. The distribution system of water supply to Bangalore was maintained satisfactorily.

7. *Krishnaraj Sagar and Allied Works.*—Sanction was accorded in G. O. No. P. W. 8458-60, dated 12th June 1944, to the continuance of the Office of the Irrigation Circle of Superintendence and the Krishnaraj Sagar section of the Central Office on a permanent basis.

8. Against the final grant of Rs. 19,90,000 allotted for the Krishnaraj Sagar and allied works for the year, the aggregate expenditure was Rs. 17,31,064.

Under "38 Krishnaraj Sagar (i) Dam Works and (ii) Irrigation Works" the total capital cost to the end of the year (exclusive of the sum of Rs. 1,30,00,000 being the portion of the capital cost of the reservoir for power water storage debited to the Electrical Department) was Rs. 3,81,71,495. The total gross receipts during the year amounted to

to Rs. 4,25,430, the net revenue during the year, excluding interest charges on the capital invested was Rs. 70,104 which works out to a net return of 0·18 per cent on the capital outlay of Rs. 3,81,71,495 as against 0·24 per cent during the previous year.

9. *The Dam Works.*—The final grant for the year was Rs. 4,19,000 and the outlay Rs. 3,64,082, the total outlay on the Dam Works after transferring an outlay of Rs. 1,30,00,000 to the Cauvery Power Scheme in accordance with G. O. No. E. D. S. 230-34, dated 31st July 1939, being Rs. 1,33,42,901. The dam, sluices and weir gates were maintained in an efficient condition. The protective works to the waste weir valleys of the reservoir started under the comprehensive estimate amounting to Rs. 22·5 lakhs for which administrative sanction was accorded during the year, progressed satisfactorily. The reinforcement of the cast iron gates of +103' and +106' sluices of the dam was completed.

10. *The Irwin Canal.*—The grant and outlay for the works during the year were Rs. 11,60,300 and Rs. 9,58,512, respectively. After taking into account the receipts on capital account and excluding acreage contribution, sale value of lands, indirect charges on outlay on "Development Works" the total outlay booked to end of June 1944 was Rs. 2,17,64,183.

The execution of the channel works of the several branches of the Irwin Canal made good progress. The Irwin Canal system opened so far for irrigation consists of nearly 778 miles of the main canal, branches and distributaries including minors. Against the project extent of 120,000 acres under the Irwin Canal, the net area actually available for irrigation is 92,000 acres, 28,000 acres having been lost by the creation of dry belts for villages in the irrigated tract. The actual area brought under irrigation to the end of June 1944 was 89,460 acres as against 81,680 during the previous year.

11. *Grow More Food Scheme.*—The growing of irrigated ragi and jola was encouraged by giving water supply during the summer of 1944 in the Irwin Canal and its distributaries and under tanks and channels, in addition to the *mamool* hot weather supplies. An additional extent of 12,975 acres was under irrigated ragi and jola crops. An area of 616 acres was allowed under certain concessions to be grown with ragi and jola in the released waterspread of the Krishnaraj Sagar during summer.

12. *Development of Communications.*—The grant and outlay on the several inter-village road works proposed by the Inter-village Roads Sub-Committee for the Irwin Canal Area were Rs. 1,84,000 and Rs. 1,75,581 during the year. Seven hundred and sixty-five miles of Class I, II and III roads opened up till the end of June 1944 were maintained satisfactorily.

13. *Anti-malaria Engineering Works.*—Good progress was secured on the anti-malaria engineering works during the year, the outlay being Rs. 1,76,783 and the total outlay incurred to end of June 1944 being Rs. 5,84,418 against the sanctioned programme of Rs. 8·0 lakhs. As recommended by the Health Committee, a second comprehensive programme of anti-malaria engineering works in the new area of the Irwin Canal estimated to cost Rs. 15·0 lakhs was sanctioned during the year, and an outlay of Rs. 90,562 was booked against it during the year.

14. *Other Works.*—Among other large irrigation works in progress in the Irrigation Circle, (1) the opening of the Shimsha Left Bank channel was completed and water was supplied to an extent of 1,680 acres; (2) the first stage work of opening the Mandagere Left Bank channel was completed and water was supplied to an extent of 268 acres; (3) the work of improving and extending Ramaswamy channel, II stage was nearly completed and the channel excavation of III stage was practically completed and water was allowed in the channel for irrigation and embankment, accommodation bridges, cross drainage works, etc., were under progress and (4) the work of improving and extending the Chickadevaraya Sagar channel at an estimated cost of Rs. 1,08,000 was sanctioned during the year.

15. All the anicuts and channels above and below the Krishnaraj Sagar in the Cauvery valley (including the two Low Level Canals issuing from the Krishnaraj Sagar) aggregating 1,267½ miles were maintained satisfactorily and the distribution of water for an area of 156,160 acres was attended to promptly. By improvement of duty, an extent of 1,038

16. *Jog Power Scheme.*—The final grant for the Civil Engineering works of the Jog Power Scheme for the year was Rs. 45·0 lakhs and the outlay was Rs. 44,73,641, the total outlay on the works to end of June 1944 being Rs. 1,51,77,728. The grant for the Electrical Engineering works was Rs. 140·0 lakhs and the outlay was Rs. 3,72,812, the total outlay on these works to end of June 1944 being Rs. 19,39,826.

17. The following Civil Engineering works were at different stages of progress:—

(1) *Anicut and Head Works.*—The anicut works were practically completed and major portion of protective works to the bridge was over. Two gates for the head works were erected.

(2) *Storage Reservoir at Hirebhasgar.*—The construction of gravity dam, sluice dam, and syphon dam progressed well, the total quantity of masonry laid during the year being 5,26,000 c.ft. The total quantity laid to the end of June 1944 was 50,26,000 c.ft. against the quantity of 65,73,000 c.ft. estimated for the work. The quantity of R.C.C. work done for the syphons was 13,000 c.ft. and that for the arches over the sluice vents was 2,950 c.ft. The embankment work progressed along with the masonry at the flanks and the earthwork done during the year was 82,000 c.yds. The total quantity done to end of June 1944 was 2,91,000 c.yds. as against the estimated quantity of 5,00,000 c.yds. of earthwork.

(3) *Canals.*—The channel work was practically completed, except for a small quantity of excavation in the saddle cut in the first mile. Bed and side grouting of the channel was completed in all grades, except in the portions where revetment work to the extent of 19,500 c.yds. remained to be done.

(4) *Forebay with wasteweir.*—The work was completed except for erection of butterfly valves and shutters which had not been received.

(5) *Generating Station.*—The work of clearing the site for the generating station building progressed briskly. Excavation of 8,99,800 c.ft. of hard rock was done during the year. The total quantity of excavation done was 56,86,700 c.ft. against 72,00,000 c.ft. estimated for the work. Other works, such as machine foundations, construction of the river side new retaining wall were in progress and materials for the station building were collected.

(6) *Penstocks.*—The penstock route was excavated to the required level and protective works along the hill slope were in progress. Good progress was made by the Indian Hume Pipe Co., in the manufacture of the penstock pipes.

(7) *Permanent Trolley track.*—The excavation of the track was nearing completion and protective works in the valley portion were in progress. Materials were collected for the trolley track.

(8) *Miscellaneous items.*—Outlay was incurred on other items as shown below:—

	Rs.
(*a*) Establishment	4,83,418
(*b*) Tools and Plant	2,22,355
(*c*) Roads and Bridges	68,320
(*d*) Transport equipment	78,774
(*e*) Construction of quarters—	
(*i*) Offices, stores, etc.	2,51,791
(*ii*) Temporary buildings	2,01,086
(*f*) Anti-malaria Works	22,061
(*g*) Medical and sanitation	41,313
(*h*) Contingencies	1,71,378
(*i*) Compensation for lands coming under submersion in the contour of the storage reservoir at Hirebhasgar	15,70,752

The surveys of the entire length of 414 miles of the waterspread of the Hirebhasgar Reservoir at the final contour level of R. L. 1778.00 were completed during the year. An extent of 8,256 acres was acquired against the total extent of 11,454 acres of wet, garden and dry lands that will be affected by the waterspread in Sagar and Hosanagar Taluks. Thirty-one villages in Sagar Taluk and 37 in Hosanagar Taluk will be affected by the waterspread. The total number of houses that are likely to be submerged is 462 in 24 villages of Sagar Taluk, 235 in 20 villages of Hosanagar Taluk. Prompt action

18. On the Electrical side, the major items of machinery and electrical materials, such as, generator coolers, workshop machinery, trolley hoist, steel plates, transformer oil, lightning arresters and hardware materials were received during the year and the workshop machinery was all erected and materials such as fish plates, dog spikes, etc., required for the material haulage track were manufactured. The erection of the trolley hoist for the Generating Station was completed. The construction of the Receiving Station and quarters for the staff at Bhadravati was started and the work progressed briskly.

Estimates aggregating Rs. 140·0 lakhs for the erection of penstocks, transformer and switch-gear equipment for Bhadravati, generating units, transformers, outdoor station and forebay equipment at Jog, etc., were sanctioned, during the year.

19. The general health of the official and labour colonies was maintained satisfactorily. The Civil Engineering Committee met four times during the year and the members offered valuable suggestions both in designing and execution of the works during the year.

20. *Establishment.*—The total charges under this head amounted to Rs. 12,59,319 which worked out to 11·85 per cent of the outlay on works and repairs under all heads.

21. *Condition of accounts.*—The accounts work in the Shimoga Circle suffered a handicap which is stated to be due to inadequate staff. Necessary steps should be taken early to clear the arrears and bring the accounts up-to-date.

22. *Schedule of rates.*—The schedule of rates was revised to suit the present day conditions for payment on certain classes of works at the discretion of the Chief Engineer and the Superintending Engineers.

23. *General.*—The policy of development of irrigation in the State received special attention of the Department in view of the present day need for increasing the production of food crops. The projects investigated in the past were reviewed and a five-year programme comprising 28 works of irrigation estimated to amount to about Rs. 2 crores and benefiting 66,000 acres was drawn up. Administrative sanction of Government was accorded to this programme in October 1944.

His Highness the Maharaja of Mysore was graciously pleased to tour in Hassan and Shimoga Districts and lay the foundation stone of the Holehonnur Bridge on the 10th March 1944. His Highness was also graciously pleased to visit Krishnaraj Sagar and the works of the Jog Power Scheme.

24. *Work of the Department.*—The work of the Department during the year was satisfactory.

K. D. JOSHI, *P. W. Secy.*

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